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L2: Entry 38 of 40

File: USPT

Dec 22, 1998

DOCUMENT-IDENTIFIER: US 5851818 A

TITLE: Condensed plasmid-liposome complex for transfection

Brief Summary Text (26):

The plasmid-liposome complex prepared according to the method of the invention, in one embodiment, is for use in transfecting a host cell with a gene contained in a DNA plasmid, where the DNA plasmid contains a gene selected from the group consisting of genes encoding for Factor VIII, interleukin-2 or p53.

Detailed Description Text (19):

In the first are those genes which are intended to overcome a gene deficiency or defect in the subject, i.e., where the subject fails to produce active, endogenous protein at all or within normal levels, and the gene introduced in the plasmid is intended to make up this deficiency. Examples of this class of genes include genes encoding adenosine deaminase (ADA), for gene expression in stem cells or lymphocytes; genes encoding purine nucleoside phosphorylase deficiency, deficiency in prostaglandin G/H synthase, therapy of Lesch-Nyhan syndrome caused by a deficiency in hypoxanthine-guanine phosphoribosyltransferase, genes encoding a variety of circulating proteins, such as .alpha..sub.1 -antitrypsin, clotting factors (e.g., Factor VIII, Factor IX) and globins (e.g., .beta.-globin, hemoglobin), for the treatment of hemophilia, sickle-cell anemia and other blood-related diseases, and genes encoding hormones and other peptide regulators.

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File: USPT

Feb 11, 2003

US-PAT-NO: 6517830

DOCUMENT-IDENTIFIER: US 6517830 B1

**** See image for Certificate of Correction ****

TITLE: Compositions and methods for the expression of factor VIII polypeptides and uses therefor

DATE-ISSUED: February 11, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|-------------------|------------|-------|----------|---------|
| Lollar; John S. | Decatur | GA | | |
| Do; Hung V. | Atlanta | GA | | |
| Healey; John F. | Snellville | GA | | |
| Waller; Edmund K. | Atlanta | GA | | |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|------------------|---------|-------|----------|---------|-----------|
| Emory University | Atlanta | GA | | | 02 |

APPL-NO: 09/633020 [\[PALM\]](#)

DATE FILED: August 4, 2000

PARENT-CASE:

CROSS-REFERENCE TO RELATED APPLICATIONS This application claims the benefit of U.S. Provisional Application Ser. No. 60/147,407, filed Aug. 5, 1999, the contents of which are herein incorporated by reference.

INT-CL-ISSUED: [07] A01N 63/00, A61K 48/00

INT-CL-CURRENT:

| TYPE IPC | DATE |
|-----------------------------------|----------|
| CIPN A61 K 48/00 | 20060101 |
| CIPS C07 K 14/435 | 20060101 |
| CIPS C07 K 14/755 | 20060101 |
| CIPS C12 P 21/02 | 20060101 |

US-CL-ISSUED: 424/93.21; 514/44, 435/320.1

US-CL-CURRENT: [424/93.21](#); [435/320.1](#), [514/44](#)

FIELD-OF-CLASSIFICATION-SEARCH: 514/44, 435/720.1, 424/93.21

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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| | PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
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| <input type="checkbox"/> | <u>4868112</u> | September 1989 | Toole, Jr. | 435/68 |
| <input type="checkbox"/> | <u>5681746</u> | October 1997 | Bodner | |
| <input type="checkbox"/> | <u>5744446</u> | April 1998 | Lollar | |
| <input type="checkbox"/> | <u>6087129</u> | July 2000 | Newgard | |

OTHER PUBLICATIONS

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ART-UNIT: 1635

PRIMARY-EXAMINER: Nguyen; Dave T.

ASSISTANT-EXAMINER: Whiteman; Brian

ATTY-AGENT-FIRM: Alston & Bird LLP

ABSTRACT:

Compositions and methods are provided for the in vivo gene delivery of nucleic acid sequences encoding the factor VIII protein to the liver endothelial sinusoidal cells (LSECs). Compositions and methods are also provided for the ex vivo gene transfer of nucleic acid sequences encoding the factor VIII protein to cultured LSECs and the implantation of the transformed LSECs in vivo. These methods and compositions increase the level of factor VIII in the blood stream and find use in the gene therapy treatment of hemophilia A.

12 Claims, 4 Drawing figures

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L2: Entry 35 of 40

File: USPT

Oct 17, 2000

DOCUMENT-IDENTIFIER: US 6133026 A

TITLE: Condensed plasmid-liposome complex for transfection

Brief Summary Text (22):

In one embodiment, the condensed plasmid molecules are DNA plasmid molecules containing a gene selected from the group consisting of genes encoding for cystic fibrosis transmembrane conductance regulator, Factor VIII, interleukin-2 or p53.

Brief Summary Text (31):

The plasmid-liposome complexes prepared according to the method of the invention, in one embodiment, are for use in transfecting a host cell with a gene contained in a DNA plasmid, where the DNA plasmid contains a gene selected from the group consisting of genes encoding for Factor VIII, interleukin-2 or p53.

Detailed Description Text (24):

In the first are those genes which are intended to overcome a gene deficiency or defect in the subject, i.e., where the subject fails to produce active, endogenous protein at all or within normal levels, and the gene introduced in the plasmid is intended to make up this deficiency. Examples of this class of genes include genes encoding adenosine deaminase (ADA), for gene expression in stem cells or lymphocytes; genes encoding purine nucleoside phosphorylase deficiency, deficiency in prostaglandin G/H synthase, therapy of Lesch-Nyhan syndrome caused by a deficiency in hypoxanthine-guanine phosphoribosyltransferase, genes encoding a variety of circulating proteins, such as .alpha..sub.1 -antitrypsin, clotting factors (e.g., Factor VIII, Factor IX) and globins (e.g., .beta.-globin, hemoglobin), for the treatment of hemophilia, sickle-cell anemia and other blood-related diseases, and genes encoding hormones and other peptide regulators.

CLAIMS:

2. The composition of claim 1, wherein the condensed plasmid molecules are DNA plasmid molecules containing a gene selected from the group consisting of genes encoding for cystic fibrosis transmembrane conductance regulator, Factor VIII, interleukin-2 and p53.

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